



PTO/SB/08a (07-09)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/582,918-Conf. #8250
				Filing Date	June 14, 2006
				First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
Sheet	1	of	12	Attorney Docket Number	PKI-186US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1*	US-4,489,160	12-18-1984	Katsumata et al.	
	A2*	US-4,601,893	07-22-1986	Cardinal	
	A3*	US-5,158,891	10-27-1992	Takeda et al.	
	A4*	US-5,175,108	12-29-1992	Bachmann et al.	
	A5*	US-5,759,610	06-02-1998	Nishimoto et al.	
	A6*	US-5,965,391	10-12-1999	Reinscheid et al.	
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	A8*	US-20020197605-A1	12-26-2002	Nakagawa et al.	
	A9*	US-20030049804-A1	03-13-2003	Pompejus et al.	
	A10*	US-20030092137	05-15-2003	Farwick et al.	
	A11*	US-20030162267-A1	08-28-2003	Pompejus et al.	
	A12*	US-20030175503-A1	09-18-2003	Lucast et al.	
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	A15*	US-20040180408-A1	09-16-2004	Pompejus et al.	
	A16*	US-6,822,084	11-23-2004	Pompejus et al.	
	A17*	US-6,921,651-A1	07-26-2005	Farwick et al.	
	A18*	US-7,313,177	12-25-2007	Radjassamy	
	A19*	US-20080118948	05-22-2008	Kroger et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	B1	EP-0472869-B1	03-04-1992	DeGussa AG	
	B2	WO-96/15246-A1	05-23-1996	Forschungszentrum Jülich GmbH	
	B3	DE-4440118-C1	11-09-1995	Forschungszentrum Jülich GmbH	Abstr.
	B4	JP-10-229891	09-02-1998	Mitsubishi Rayon Co.	Abstr.
	B5	WO-01/00804-A2	01-04-2001	BASF Aktiengesellschaft	
	B6	WO-01/00842-A2	01-04-2001	BASF Aktiengesellschaft	

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	B7	WO-01/00843-A2	01-04-2001	BASF Aktiengesellschaft		
	B8	WO-01/00844-A2	01-04-2001	BASF Aktiengesellschaft		
	B9	WO-02/29029-A2	04-11-2002	DeGussa AG		
	B10	WO-02/051231-A1	07-04-2002	BASF Aktiengesellschaft		
	B11	DE-10112992-A1	09-26-2002	DeGussa AG		Abstr.
	B12	WO-03/040373-A2	05-15-2003	DeGussa AG		

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	B13	CA-2548306-A1	06-30-2005	BASF Aktiengesellschaft	
	B14	CA-2549171-A1	06-30-2005	BASF Aktiengesellschaft	
	B15	WO-05/059143-A1	06-30-2005	BASF Aktiengesellschaft	
	B16	WO-05/059144-A1	06-30-2005	BASF Aktiengesellschaft	

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	C2	Bernard, Philippe et al., "The F Plasmid CdcB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> , Vol. 234:534-541 (1993)	
	C3	Blomfield, I.C. et al., "Allelic exchange in <i>Escherichia coli</i> using the <i>Bacillus subtilis</i> <i>sacB</i> gene and a temperature-sensitive pSC101 replicon," <i>Molecular Microbiology</i> , Vol. 5(6):1447-1457 (1991)	
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	C7	de León, Patricia et al., "Streptomyces <i>lividans</i> <i>groES</i> , <i>groEL1</i> and <i>groEL2</i> genes," <i>Microbiology</i> , Vol. 143:3563-3571 (1997)	
	C8	Duncan, L. Kieran et al., "High Frequency Transformation of Whole Cells of Amino Acid Producing Coryneform Bacteria Using High Voltage Electroporation," <i>Bio/Technology</i> , Vol. 7:1067-1070 (1989)	
	C9	Eikmanns, Bernhard J. et al., "A family of <i>Corynebacterium glutamicum</i> / <i>Escherichia coli</i> shuttle vectors for cloning, controlled gene expression, and promoter probing," <i>Gene</i> , Vol. 102:93-98 (1991)	
	C10	Eikmanns, Bernhard J. et al., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> <i>gltA</i> gene encoding citrate synthase," <i>Microbiology</i> , Vol. 140:1817-1828 (1994)	

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	C11	EMBL-EBI AC DU031674, Mueller, L.A. et al., "BAC end sequencing from three Solanum lycopersicon libraries," 08-13-2005	
	C12	Follettie, Maximilian T. et al., "Gene Structure and Expression of the <i>Corynebacterium flavum</i> N13 ask-asd Operon," <i>Journal of Bacteriology</i> , Vol. 175(13):4096-4103 (1993)	
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	C14	GenBank AC AAH68534, Strausberg, R.L. et al., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , Vol. 99(26):16899-16903 (2002) 10/06/2006	
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	C19	GenBank AC BX927154, 11-14-2006	
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	C21	Guerrero, Carmen et al., "Directed mutagenesis of a regulatory palindromic sequence upstream from the <i>Brevibacterium lactofermentum</i> tryptophan operon," <i>Gene</i> , Vol. 138:35-41 (1994)		
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	C23	Hassett, Daniel J. et al., "Cloning and Characterization of the <i>Pseudomonas aeruginosa</i> sodA and sodB Genes Encoding Manganese- and Iron-Cofactored Superoxide Dismutase: Demonstration of Increased Manganese Superoxide Dismutase Activity in ALginate-Producing Bacteria," <i>Journal of Bacteriology</i> , Vol. 175(23):7658-7665 (1993)		
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	C25	Ivanov, Ivan G. et al., "Expression of human alpha 1 interferon genes in vectors containing tandemly located promoters recognized by two different RNA polymerases (<i>Escherichia coli</i> and T7)," <i>FEMS Microbiology Letters</i> , Vol. 108:231-236 (1993)		
	C26	Jäger, W. et al., "Expression of the <i>Bacillus subtilis</i> sacB Gene Leads to Sucrose Sensitivity in the Gram-Positive Bacterium <i>Corynebacterium glutamicum</i> but Not in <i>Streptomyces lividans</i> ," <i>Journal of Bacteriology</i> , Vol. 174(16):5462-5465 (1992)		
	C27	Jensen, Peter Ruhdal et al., "Artificial Promoters for Metabolic Optimization," <i>Biotechnology and Bioengineering</i> , Vol. 58(2&3):191-195 (1998)		
	C28	Kalinowski, Jörn et al., "The complete <i>Corynebacterium glutamicum</i> ATCC 13032 genome sequence and its impact on the production of L-aspartate-derived amino acids and vitamins," <i>Journal of Biotechnology</i> , Vol. 104:5-25 (2003)		
	C29	Kennell, David E., "Principles and Practices of Nucleic Acid Hybridization," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 11, J.N. Davidson, Ed., Academic Press, pgs. 259-301 (1971)		
	C30	Kronemeyer, Wolfgang et al., "Structure of the gluABCD Cluster Encoding the Glutamate Uptake System of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(5):1152-1158 (1995)		

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	C33	Léhnök, E.S., "Transduction of Linked Genetic Characters of the Host by Bacteriophage P1," <i>Virology</i> , Vol. 1:190-206 (1955)		
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	C35	Liebl, W. et al., "High efficiency electroporation of intact <i>Corynebacterium glutamicum</i> cells," <i>FEMS Microbiology Letters</i> , Vol. 65:299-304 (1989)		
	C36	Makrides, Savvas C., "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> , Vol. 60(3):512-538 (1996)		
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	C38	Malumbres, Marcos et al., "Codon preference in <i>Corynebacteria</i> ," <i>Gene</i> , Vol. 134:15-24 (1993)		
	C39	Martín, J.F. et al., "Cloning Systems in Amino Acid-producing <i>Corynebacteria</i> ," <i>Bio/Technology</i> , Vol. 5:137-146 (1987)		
	C40	Menkel, Elke et al., "Influence of Increased Aspartate Availability on Lysine Formation by a Recombinant Strain of <i>Corynebacterium glutamicum</i> and Utilization of Fumarate," <i>Applied and Environmental Microbiology</i> , Vol. 44(3):684-688 (1989)		

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	C41	Merkamm, Muriel et al., "Cloning of the soldA Gene from <i>Corynebacterium melassecola</i> and Role of Superoxide Dismutase in Cellular Viability," <i>Journal of Bacteriology</i> , Vol. 183(4):1284-1295 (2001)		
	C42	Michal, G., "Nucleotide und Nucleoside," <i>Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology</i> , Ed. Wiley, pp. 99-107 (1999)		
	C43	Murakami, Yuji et al., "Construction of new excretion vectors: two and three tandemly located promoters are active for extracellular protein production from <i>Escherichia coli</i> ," <i>Applied and Microbiology Biotechnology</i> , Vol. 30:619-623 (1989)		
	C44	Neidhardt, Frederick C. et al., "Chemical Composition of <i>Escherichia coli</i> ," <i>Escherichia coli and Salmonella</i> , ASM Press, 2nd Edition, Vol. 1:13-16 (1996)		
	C45	Paiva, Carmen L.A. et al., "Biotechnological applications of the disaccharide trehalose," <i>Biotechnology Annual Review</i> , Vol. 2:293-314 (1996)		
	C46	Park, Soo-Dong et al., "Isolation and Characterization of Transcriptional Elements from <i>Corynebacterium glutamicum</i> ," <i>J. Microbiol. Biotechnol.</i> , Vol. 14(4):789-795 (2004)		
	C47	Pátek, Miroslav et al., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):133-140 (1994)		
	C48	Pátek, Miroslav et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> , Vol. 142:1297-1309 (1996)		
	C49	Reinscheid, Dieter J. et al., "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum pta-ack</i> operon encoding phosphotransacetylase and acetate kinase," <i>Microbiology</i> , Vol. 145:503-513 (1999)		
	C50	Reinscheid, Dieter J. et al., "Stable Expression of <i>hom-1-thrB</i> in <i>Corynebacterium glutamicum</i> and Its Effect on the Carbon Flux to Threonine and Related Amino Acids," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):126-132 (1994)		

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	C51	Sambrook, J. et al., "Analysis of Genomic DNA by Southern Hybridization," <i>Analysis and Cloning of Eukaryotic Genomic DNA, Molecular Cloning, A Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, Vol. 2, pp. 9.31-9.62 (1989)	
	C52	Sanger, F. et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 74(12):5463-5467 (1977)	
	C53	Schäfer, Andreas et al., "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ," <i>Gene</i> , Vol. 145:69-73 (1994)	
	C54	Schmidt, S. et al., "Near infrared spectroscopy in fermentation and quality control for amino acid production," <i>Bioprocess Engineering</i> , Vol. 19:67-70 (1998)	
	C55	Schrumpf, Bärbel et al., "A Functionally Split Pathway of Lysine Synthesis in <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 173(14):4510-4516 (1991)	
	C56	Schwarzer, Astrid et al., "Manipulation of <i>Corynebacterium Glutamicum</i> by Gene Disruption and Replacement," <i>Bio/Technology</i> , Vol. 9:84-87 (1991)	
	C57	Serwold-Davis, Theresa M. et al., "Localization of an origin of replication in <i>Corynebacterium diphtheriae</i> broad host range plasmid pNG2 that also functions in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 66:119-124 (1990)	
	C58	Shiosaka, Makoto, "Application of Trehalose," <i>FFI Journal</i> , Vol. 172:97-102 (1997)	
	C59	Simmonds, H.A., "The Enzymes of Nucleotide Biosynthesis," <i>Biochemical Society Transactions</i> , Vol. 23:877-902 (1995)	
	C60	Simon, R. et al., "A Broad Host Range Mobilization System for <i>In Vivo</i> Genetic Engineering: Transposon Mutagenesis in Gram Negative Bacteria," <i>Bio/Technology</i> , Vol. 1:784-791 (1983)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/582,918-Conf. #8250
(Use as many sheets as necessary)				Filing Date	June 14, 2006
Sheet	10	of	12	First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
				Attorney Docket Number	PKI-186US

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	C61	Singer, Mike A. et al., "Thermotolerance in <i>Saccharomyces cerevisiae</i> : the Yin and Yang of trehalose," <i>Trends Biotech</i> , Vol. 16:460-467 (1998)		
	C62	Smith, Janet L., "Enzymes of nucleotide synthesis," <i>Current Opinion in Structural Biology</i> , Vol. 5:752-757 (1995)		
	C63	Sonnen, Hans et al., "Characterization of pGA1, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6," <i>Gene</i> , Vol. 107:69-74 (1991)		
	C64	Spratt, Brian G. et al., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8 and pEMBL9," <i>Gene</i> , Vol. 41:337-342 (1986)		
	C65	Strauss, William M., "Hybridization with Radioactive Probes," <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, N.Y., pp. 6.3.1-6.3.6 (1993)		
	C66	Stryer, Lubert, "Amino Acid Degradation and the Urea Cycle" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 495-516, Chapt. 21, (1988)		
	C67	Stryer, Lubert, "Biosynthesis of Amino Acids and Heme" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 575-600, Chapt. 24, (1988)		
	C68	Tauch, Andreas et al., "Corynebacterium glutamicum DNA is subjected to methylation-restriction in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 123:343-348 (1994)		
	C69	Tauch, Andreas et al., "The Erythromycin Resistance Gene of the <i>Corynebacterium xerosis</i> R-plasmid pTP10 Also Carrying Chloramphenicol, Kanamycin, and Tetracycline Resistances Is Capable of Transposition in <i>Corynebacterium glutamicum</i> ," <i>Plasmid</i> , Vol. 33:168-179 (1995)		
	C70	Tauschek, Marja et al., "Transcriptional analysis of the <i>groESL</i> operon of <i>Neisseria gonorrhoeae</i> ," <i>Gene</i> , Vol. 189:107-112 (1997)		

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	C71	Thierbach, Georg et al., "Transformation of spheroplasts and protoplasts of <i>Corynebacterium glutamicum</i> ," <i>Applied Microbiology and Biotechnology</i> , Vol. 29:356-362 (1988).	
	C72	Thies, Frank L. et al., "Cloning, sequencing and molecular analysis of the <i>Campylobacter jejuni</i> groESL bicistronic operon," <i>Microbiology</i> , Vol. 145:89-98 (1999)	
	C73	Tsuchiya, Makoto et al., "Genetic Control Systems of <i>Escherichia Coli</i> Can Confer Inducible Expression of Cloned Genes in Coryneform Bacteria," <i>Bio/Technology</i> , Vol. 6:428-430 (1988)	
	C74	Ullmann's Encyclopedia of Industrial Chemistry, "Amino Acids," Eds. Barbara Elvers et al., VCH, Vol. A2:57-97 (1985)	
	C75	Ullmann's Encyclopedia of Industrial Chemistry, "Chemical Analysis," Eds. Barbara Elvers et al., VCH, Vol. A27:89-90 (1996)	
	C76	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:443-613 (1996)	
	C77	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:521-547 (1996)	
	C78	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:559-566 (1996)	
	C79	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:575-587 (1996)	
	C80	Umbarger, H.E., "Amino Acid Biosynthesis and its Regulation," <i>Ann. Rev. Biochem.</i> ; Vol. 47:533-606 (1978)	

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	C81	Vašicová, Pavla et al., "Analysis of the <i>Corynebacterium glutamicum dapA</i> Promoter," <i>Journal of Bacteriology</i> , Vol. 181(19):6188-6191 (1999)				
	C82	Voet, Donald et al., "Nucleic Acid Structures and Manipulation," <i>Biochemistry</i> , Wiley Press, Chapt. 28, pp. 896-897 (1995)				
	C83	Zalkin, Howard et al., "De Novo Purine Nucleotide Biosynthesis," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 42:259-287 (1992)				
	C84	International Search Report for Application No. PCT/EP2004/014263, dated April 27, 2005				
	C85	International Search Report for Application No. PCT/EP2004/014337, dated April 1, 2005				
	C86	International Preliminary Report on Patentability for Application No. PCT/EP2004/014337, dated November 10, 2005				
	C87	International Search Report for Application No. PCT/EP2005/007758, dated December 20, 2005				
	C88	International Preliminary Report on Patentability for Application No. PCT/EP2005/007758, dated January 23, 2007				

Examiner Signature	/Michele K. Joike/	Date Considered	02/21/2010
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